

DESCRIPTIONS OF NEW SPECIES OF LAND-SHELLS FROM
NEW GUINEA AND NEIGHBOURING ISLANDS.

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PLATE XVII.

Most of the specimens about to be described form part of collections made by Mr. William Doherty in 1892. They have been placed in my hands for examination by our President, who has not had time to work them out himself. The whole collection contains thirty-three species in all, which are quoted in the following list, with the special locality, when known, of each.

In addition, descriptions are given of a new *Rhytida* from Trobriand Island and a new *Chloritis* from Woodlark Island; both these, with *Hadra Forsteriana*, also referred to, were received by Mr. Sowerby from a collector who had been travelling in New Guinea and the neighbouring islands.

LIST OF SPECIES.

1. *Veronicella prismatica*, Canefri.
2. *Macrochlamys Dohertyi*, n.sp. Andai.
3. *Ariophanta (Hemiplecta) Andaiensis*, n.sp. Andai.
4. *Ariophanta (Xesta) fraudulenta*, Smith. Biak Island.
5. *Chloritis circumdata*, Férus. Andai.
6. *Chloritis dinodeomorpha*, Canefri.
7. *Chloritis chevatomorpha*, Canefri (a small variety). Island of Ron, Geelvink Bay.
8. *Chloritis (Suleobasis) Rohdei*, Kobelt. Humboldt Bay.
9. *Planispira (Cristigibba) corniculum*, H. & J. (var. β of Canefri). Wandesi.
10. *Planispira (Cristigibba) tortilabia*, Lesson (form β var. δ of Canefri).
11. *Trochomorpha planorbis*, Lesson. Andai.
12. *Sitala anthropophagorum*, Hedley. Humboldt Bay.
13. *Papuina rufo-purpurea*, n.sp.
14. „ *molesta*, n.sp. Andai.
15. „ *multizona*, Lesson. Andai.
16. „ *lituus*, Lesson. Andai.
17. „ *Taumantias*, Canefri, var.
18. „ *grata*, Michelin. Mansinam.
19. „ *Lintschuana*, Kobelt.
20. „ *Tayloriana*, Ad. & Rve. Zamna.
21. „ *Tuomeusis*, Aucey, var.
22. „ *Blanfordiana*, H. Ad. (var. *Poirieri*, Canefri). Andai.
23. *Albersia zonulata*, Férus. (a small form). Andai.

24. *Perrieria clausiliaformis*, Canefri.
25. *Cyclotus distomellus*, Sow. (var. passing into *guttatus*, Pfr.). Andai.
26. *Leptopoma Gianellii*, Canefri. Andai.
27. *Bellardiella Martensiana*, Canefri.
28. *Pupina Papuana*, n.sp. Andai.
29. *Pupina nasuta*, Smith. Humboldt Bay.
30. *Helicina sphaeroconus*, Mölldff.
31. *Helicina parva*, Sow., var. (one specimen). Island of Jobie, Geelvink Bay.
32. *Helicina Jobiensis*, Canefri. Ron and Jobie Islands, Geelvink Bay.
33. *Truncatella gracilentu*, n.sp. Andai.

DESCRIPTIONS OF SPECIES.

1. RHYTIDA TROBRIANDENSIS, n.sp. Pl. XVII, Figs. 1-3.

Testa depressa, orbicularis, aperte umbilicata, tenuis, olivaceo-flavescens, lincis obliquis sinuosis olivaceo-rufescentibus gracilibus remotis picta, nitens, lincis incrementi obliquis exilibus striisque spiralibus microscopicis confertis sculpta; spira fere plana, apice obtuso, vix elato; anfractus $4\frac{1}{2}$, celeriter crescentes, leviter convexiusculi, ultimus latus, haud descendens; apertura obliqua, late lunata, intus caeruleo-albida; peristoma tenue, simplex, marginibus conniventibus; umbilicus perspectivus, diam. totius basis $\frac{1}{4}$ aequans. Diam. maj. 17, min. 15, alt. 9 mm.; apertura 8 mm. longa, 6 lata.

Hab.—Trobriand Island.

Flatter than *R. Franklandiensis*, Forbes, and less distinctly striated. More deeply umbilicated and with a less sunken spire than *R. veronica*, Pfr., from the Solomon Islands.

2. MACROCHLAMYS DOHERTYI, n.sp. Pl. XVII, Figs. 4-6.

Testa anguste perforata, orbicularis, supra depresso conoidea, nitidiuscula, subpellucida, pallide fusco-cornea, infra polita; anfractus $5\frac{1}{2}$, lente accrescentes, convexiusculi, infra suturam linea angusta pellucida marginati, striis incrementi tenuissimis obliquis arcuatis sculpti, ultimus in medio postice obtuse angulatus (angulo antice evanescente), haud descendens; apertura oblique lunata; peristoma intus costa pallida conspicua incrassatum, margine columellari anguste reflexo. Diam. maj. 12.5, min. 11 mm.; alt. 7.5 mm.

Hab.—Andai, New Guinea.

Smaller than *M. Papuana*, Smith, with a slightly more conical spire, and angulated body-whorl, and a distinct rib-like thickening within the peristome, which is seen externally through the substance of shell.

3. ARIOPHANTA (HEMPLECTA) ANDAIENSIS, n.sp. Pl. XVII, Figs. 7, 8.

Testa depresso conica, acute carinata, angustissime umbilicata, dilute fuscescens, infra carinam pallidam zona angusta rufa cincta, supra sericata, infra polita; spira depresso conoidea, ad apicem leviter obtusa; anfractus 6, lente crescentes, superiores tres convexiusculi,

cæteri minus convexi, lineis incrementi tenuissimis obliquis arcuatis striisque spiralibus exilissimis obsoletis sculpti, ultimus acute sed haud compressè carinatus, nec descendens, nec subtus concentricè striatus; apertura securiformis, pallide roseo-fuscescens, in medio carina pallida et zona rufa translucens; peristoma supra medioeriter tenue, infra inerassatum, pallidum, supra umbilicem paulo reflexum. Diam. maj. 31·5, min. 26·5 mm.; alt. 14 mm.

Hab.—Andai, New Guinea.

Like *II. exilis*, Müller, in colour, but much more sharply keeled, the form of the aperture being consequently very different. The spire in *II. exilis* is curved in outline, whereas in *II. Andaiensis* it is rectilinear, or even feebly concave. *II. inclinata*, Pfr., is much more sharply keeled, the body-whorl being concavely depressed both above and below the keel, beneath which there is no reddish line as in the present species.

4. THERSITES (HADRA) FORSTERIANA, Pfr.

Pilsbry, Man. Conch., ser. II, vol. vi, p. 127.

Hab.—Ferguson Island.

The localities known for this species are "Barrow, Howick, and Percy Islands" (Pilsbry).

The specimen from Ferguson Island is 26 mm. in its greatest diameter. Mr. Sowerby, from whom it was obtained for the Museum, has no reason to doubt the correctness of the habitat, since he received the shell with others from a collector who had been travelling in New Guinea and the adjacent islands.

5. CHLORITIS FUSCO-PURPUREA, n.sp. Pl. XVII, Figs. 12-14.

Testa depressè globosa, semiobteete umbilicata, purpureo-fusca, periostraco piloso induta; spira depressa, supra anfractum ultimum vix elata, ad apicem obtusa; anfractus $4\frac{1}{2}$ convexiusculi, sutura subprofunda discreti, undique tenuiter granulati, ultimus antice subito descendens, circa umbilicem obtusissime argulatus; apertura oblique lunata; peristoma tenue, fusco-purpureum, medioeriter expansum et reflexum, margine columellari superne dilatato, umbilicem semiobtegente. Diam. maj. 24, min. 19 mm.; alt. 16 mm.

Hab.—Woodlark Island.

This species differs from *Chloritis Leei* of Cox, which also occurs on Woodlark Island, in its general form, narrower umbilicus, smaller aperture, closer granulation, etc. It may perhaps be Mr. Hedley's var. *Woodlarkensis* of that species: see Proc. Linn. Soc. New South Wales, ser. II, vol. vi (1891), p. 83.

6. PAPUINA RUFO-PURPUREA, n.sp. Pl. XVII, Fig. 9.

Testa perforata, trochiformis, saturate purpureo-rufa, striis incrementi obliquis tenuibus sculpta; spira elongata, conica, anfractus 7, lente accrescentes, superiores tres convexiusculi, cæteri minus convexi, ultimus ad peripheriam obtuse angulatus, antice vix descendens,

infra medium leviter convexus, nitens; apertura obliqua, intus rufo-purpurea, submargaritacea; peristoma rufo-purpureum, late expansum et leviter reflexum, margine basali paulo incrassato, supra umbilicum reflexo. Diam. maj. 30, min. 24 mm.; alt. 34 mm.

Hab.—New Guinea.

The upper surface is dull, the base being glossy. Besides the fine lines of growth, there are faint traces of spiral striation. *P. lenta*, Pfr., and *P. euehroes*, Pfr., are allied forms as regards shape.

7. PAPUINA MOLESTA, n.sp. Pl. XVII, Figs. 10, 11.

Testa brevita conoidea, acute carinata, umbilicata, dilute fuscescens, lincis incrementi obliquis striata, undique minutissime granulata; spira brevis, recte conica, ad apicem acutiusecula; anfractus 5, subceleriter accrescentes, superiores tres convexi, penultimus minus convexus, ultimus supra planiuseculus, infra convexior, in medio acute carinatus, ad labrum breviter descendens; apertura oblique angulato-lunata, intus concolor; peristoma albidum, margine superiore leviter expanso, inferiore latius dilatato et reflexo, columellari etiam latius expanso. Diam. maj. 19, min. 16 mm.; alt. 12 mm.

Hab.—Andai, New Guinea.

The peripheral keel forms a carinate sutural line between the last and penultimate volutions.

8. PUPINA PAPUANA, n.sp. Pl. XVII, Fig. 15.

Testa subovata, polita, flavescens, spira convexe conoidea, ad apicem medioeriter acuminata; anfractus sex, convexiuseculi, sutura inconspicua, linea angustissima rufescenti marginata, sejuncti, ultimus elongatus, obliquus, supra aperturam leviter complanatus, valde descendens, sed ad labrum paulo ascendens; apertura aurea, valde lateralis, fere circularis, longitudinis totius $\frac{2}{3}$ adaequans; peristoma leviter incrassatum, margine superiore subsinuato; fissura columellaris angusta, curvata, sursum tensa, lobo anfractus ultimi semiobtecta; callus columellaris porrectus, postice lamella acuta terminans. Long. 11, diam. 6 mm.; apertura 4 mm. longa.

Hab.—Andai, New Guinea.

Larger than the *P. aurea*, Hinds, with a differently coloured peristome and differently formed anterior slit.

9. TRUNCATELLA GRACILENTA, n.sp. Pl. XVII, Figs. 16, 17.

Testa elongata, gracilis, sordide albida, confertim et tenuissime costellata, costellis in anfr. ultimo aperturam versus magis distantibus lamelliformibus paulo infra medium subangulatis; anfractus 16, lente accrescentes, supremi 2-3 laeves, convexi, ad apicem plani, ceteri (quarum 7-8 permanentes) convexiuseculi, ultimus haud descendens; apertura irregulariter ovata, alba, polita; peristoma continuum, haud solutum, margine dextro late expanso et reflexo, columellari angustius reflexo. Long. 23, diam. anfractus ultimi 3, long. anfractum septem permanentium 13 mm.

Hab.—Andai, New Guinea.

Remarkable for its long slender form, and the fine close-set thread-like lamellæ, which become more remote and prominent on the body-whorl, especially around its base.

EXPLANATION OF PLATE XVII.

- FIGS. 1-3. *Rhytida Trobriandensis*.
,, 4-6. *Macrochlamys Dohertyi*.
,, 7, 8. *Ariophanta (Hemiplecta) Andaiensis*.
,, 9. *Papuina rufo-purpurea*.
,, 10, 11. *Papuina molesta*.
,, 12-14. *Chloritis fusco-purpurea*.
,, 15. *Pupina Papuana*.
,, 16. *Truncatella gracilentia* (enlarged).
,, 17. ————— Apical whorls (magnified).